

Prove that if A and B are sets, then $A \cap B = B \cap A$.

Prove that if A and B are sets, then $A \cup B = B \cup A$.

Prove that if A and B are sets, then $A \cap (B \cup C) = (A \cap B) \cup (A \cap C)$.

Prove that if A and B are sets, then $A \cup (B \cap C) = (A \cup B) \cap (A \cup C)$.

Prove that if A and B are sets, then $A \cap B \subseteq A$.

Prove that if A and B are sets, then $A \cap B \subseteq B$.

Prove that if A and B are sets, then $A \cap B \subseteq A \cup B$.

Prove that if A and B are sets, then $A \cap B \subseteq A \cap (A \cup B)$.

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